



# **Where's It All Going?**

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# **Direction from the Top**



*“The mission is to understand and protect the home planet. Protection includes using our scarce resources to improve life on Earth by living in an environmentally sound manner...”*

Honorable Sean O'Keefe,  
NASA Administrator  
Speaking to Maxwell School of  
Citizenship and Public Affairs,  
Syracuse University  
April 12, 2002

# **Agenda**

- Successes
- IG Audit
- Interface with Procurement
- Interface with OFEE
- Sustainability

# **Successes**

- 100% PCF Paper pilot; users can't tell the difference
- Changes in Photographic processes (digital, zero waste)
- Procurement and Logistics processes modified to promote green purchasing
- Life Cycle Cost Evaluations
- Greening Transportation

# **AFV Successes**

- 104 GEM electric vehicles at a value of almost \$1M
- Institutionalization of AFV program
- Administrator's new vehicle only runs on CNG

# **IG Audit**

- Still in discussion draft mode
  - Level of Agency Environmental Executive
  - Implementation of AP Programs
    - Purchasing of materials
    - Waiver processes
  - Inclusion of required clauses in contracts
    - 52.223-4
    - 52.223-9
    - 52.223-10

# **Interface with Procurement**

- Procurement has begun a collaborative effort to improve our AP performance
- Finding tools to focus on “proactive” efforts

# **Interface with OFEE**

- Interfacing with EPA/OSW regarding strategic vision for CPG
  - Helping them understand the operational considerations of expanding CPG list
- Preparations underway for some type of 13101 “scorecard”
- Concerns about the meanings of the FPDS data

# Mission

*To understand and protect our home planet,*

*To explore the Universe and search for life,*

*To inspire the next generation of explorers*

*...as only NASA can.*



# Sustainability Overview

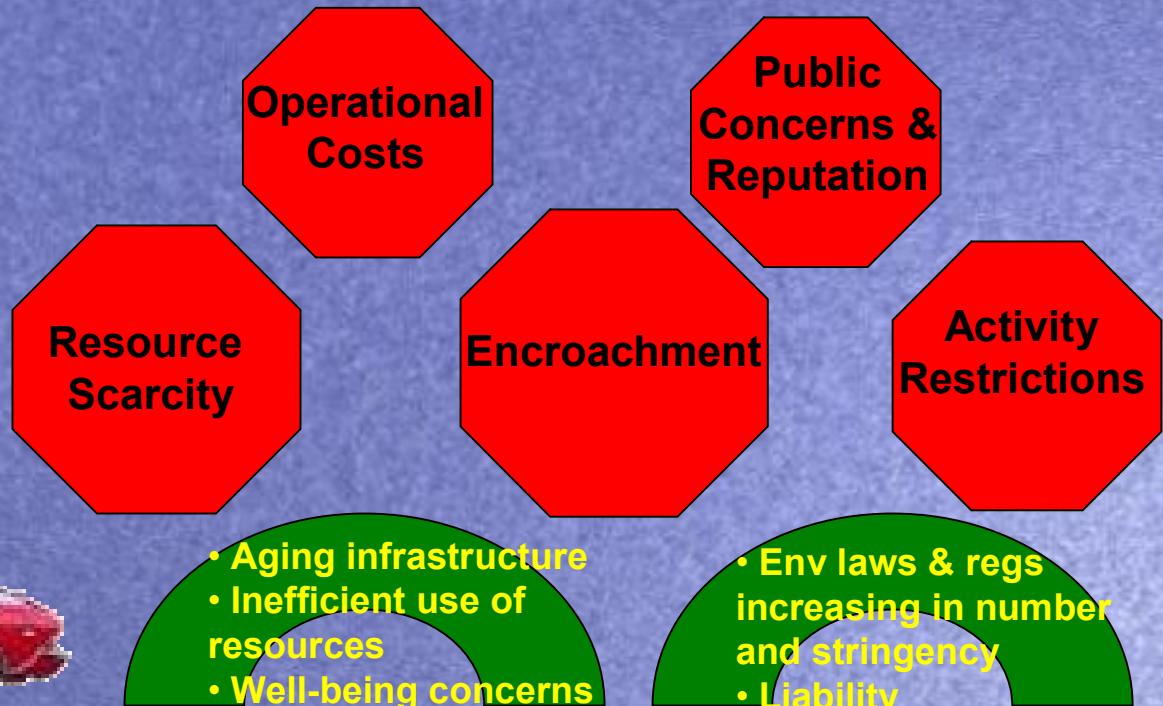
- Why us?
- How will we create a sustainable NASA that:
  - Ensures mission achievement,
  - Improves life, and
  - Protects the home planet?



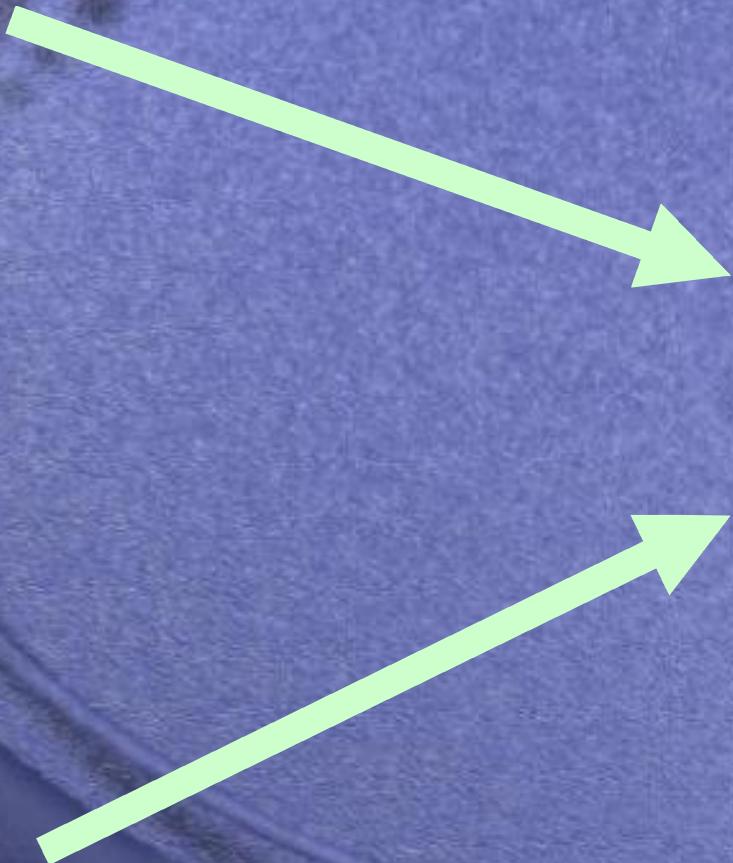
# **Sustainability**

Enhancing NASA's ability to accomplish its vision and mission by ensuring that NASA's activities provide a net positive benefit to the global and local community, and within this framework, provides flexibility for NASA and its Centers to continue their operations now and in the future.

# Situation Report



# A Global Perspective



life supporting  
resources

**declining**

consumption of  
life supporting  
resources

**rising**

# **The Dilemma**

- **Compliance** – mostly there...
- **Environmental issues** – still impact programs and facilities tremendously
- **Primary mission** – environmental considerations have not been integrated into mission, programs or projects

# What We Need

Refocus efforts from *compliance* driven activities → Beyond compliance sustainability

- Mission ≠ Compliance
- Mission = Long-term ability to protect Earth and explore space
- Current thinking is focused on compliance as desired end-state
- Compliance does not protect our ability to conduct mission
- NASA accountability goes beyond scope and authority of the environmental community

# **Translation**

- You can't use renewable resources faster than they replenish themselves.
- You can't dump garbage into Nature any faster than Nature can absorb it without going haywire.
- If you are using non-renewable resources for basic necessities, invest some into the development of renewable stuff that can replace it.

*- Alan AtKisson*

# Evolving, not Creating...

Sustainability = Change in Mindset

- Adjust existing program rather than creating new one
- Change approach to problem-solving and management
- Develop solutions with sustainability in mind now
- *Integrate sustainability principles into management systems*

# **...Not Creating a New Program**

- Concept is in development
- Will incorporate sustainability components
- Will identify specific activities
- Will call for your help



# Summary

NASA is charged with protecting our planet and taking our species to new worlds. To do this, we must have a long-term base of operations from which to conduct our mission.

Therefore, we must make our Centers, our communities, our nation, and our planet sustainable.

*It starts with us, here and now, today.*



# “ONE NASA”

Ames Research Center



Glenn Research Center  
Plum Brook Station

White Sands Test Facility

Marshall Space Flight Center

Dryden Flight Research Center



Glenn Research Center

Goddard Space Flight Center



Wallops Flight Facility



Metadata for NASA Field Center Imagery  
Imagery provided by the USGS  
Ames Research Center  
Space Imaging MCIDAS imagery  
Acquisition Date: January 2001  
Footprint: UTM\_NAD83\_Zone\_10  
Digital Resolution: 1.0 meter resolution  
Scale & Height: MCIDAS  
Projection: UTM\_NAD83  
Project: UTM\_NAD83\_Zone\_10

Glenn Research Center  
Space Imaging MCIDAS imagery  
Acquisition Date: April 2001  
Footprint: UTM\_NAD83\_Zone\_17

Glenn Plum Brook Station  
Space Imaging MCIDAS imagery  
Acquisition Date: July 2001  
Footprint: UTM\_NAD83\_Zone\_17

Jet Propulsion Laboratory  
Space Imaging MCIDAS imagery  
Acquisition Date: December 2001  
Footprint: UTM\_NAD83\_Zone\_11

NASA Headquarters  
Washington, DC  
Digital Resolution: 0.5 meter resolution  
Scale & Height: MCIDAS  
Projection: UTM\_NAD83\_Zone\_17

Kennedy Space Center  
Space Imaging MCIDAS imagery  
Acquisition Date: April 2001  
Footprint: UTM\_NAD83\_Zone\_18

Langley Research Center  
Space Imaging MCIDAS imagery  
Acquisition Date: April 2001  
Footprint: UTM\_NAD83\_Zone\_17

Marshall Space Flight Center  
Space Imaging MCIDAS imagery  
Acquisition Date: August 2001  
Footprint: UTM\_NAD83\_Zone\_18

Michoud Assembly Facility  
Space Imaging MCIDAS imagery  
Acquisition Date: October 2001  
Footprint: UTM\_NAD83\_Zone\_18

Stennis Space Center  
Space Imaging MCIDAS imagery  
Acquisition Date: October to April 2001  
Footprint: UTM\_NAD83\_Zone\_17

White Sands Test Facility  
Space Imaging MCIDAS imagery  
Acquisition Date: October 2001  
Footprint: UTM\_NAD83\_Zone\_18

Jet Propulsion Laboratory

Johnson Space Center

Michoud Assembly Facility

NASA Headquarters  
Washington, DC

Stennis Space Center

Langley Research Center

Kennedy Space Center

Provided by the  
Earth Science Applications Directorate  
Stennis Space Center, Mississippi